

DERMAPTERA IN THE COLLECTION OF THE BOMBAY NATURAL HISTORY SOCIETY, MUMBAI¹

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The study is based upon a part of the collection made during the Abor Expedition — 1911-1912 covering the present day Assam and Arunachal Pradesh. Altogether, 23 species (excluding seven identified up to generic level, since represented either by females or nymphs) belonging to 20 genera are dealt with.

The Dermaptera collection at the Bombay Natural History Society contains 23 species (excluding 7 identified up to generic level only), belonging to 20 genera under 7 families. It is not possible to identify isolated females and nymphs, since the taxonomy of the Order is based primarily on males. A part of the collection (ex Indian Museum) made during the Abor Expedition, 1911-12, conducted in present day Assam and Arunachal Pradesh, was determined and reported by Burr (1913).

Family: PYGIDICRANIDAE

Subfamily: PYGIDICRANINAE

Genus: *Cranopygia* Burr, 1908

(= *Kalocrania* Zacher, 1910)

1. *Cranopygia* sp.

1 nymph: Label I (printed) Indian Mus., Rotung, 1400 ft (426.72 m), Abor Exped., 31.xii.1911, M. de Courcy, Label II (handwritten) *Kalocrania siamensis* Dohrn, Label III B-printed, denotes M. Burr; 1 nymph: Label I (printed) Indian Mus., Abor Exped., above Panaji, 400 ft (121.92 m) 16.i.1912, Kemp, Label II (handwritten by Burr) *Kalocrania siamensis* Dohrn; 1 nymph: Label I (printed) Indian Mus., Kobo 400 ft (121.92 m), Abor Exped., 11.xii.1912, Kemp, Label II (handwritten by Burr) *Kalocrania siamensis*

Dohrn, Label III B-printed, denotes M. Burr and Label IV (printed) 2349/19 (Regn. No. of Indian Mus., Now Zoological Survey of India [ZSI]).

Remarks: Burr (1913) referred these specimens tentatively to *Kalocrania siamensis* Dohrn, and Hincks (1959) considered it a dubious record. Since only nymphs are present, these could be identified up to the generic level only.

Subfamily: DIPLATYINAE

Genus: *Diplatys* Serville, 1831

2. *Diplatys* sp.

3 Females: No data on locality.

Remarks: In the absence of a male, it is not possible to identify the species.

3. *Diplatys* sp. 1

1 ex: Label I (printed) Bombay, July 1911, N.B. Kinnear, Label II (handwritten) *Diplatys fletcheri* Burr; 1 ex: Label I Belgaum, N.B. Kinnear, September 7, 1915, Label II (handwritten) *Diplatys fletcheri* Burr.

Remarks: The hind parts in both the specimens are absent. Hence, it is not possible to confirm the species or sex.

4. *Diplatys* sp. 2

1 ex (hind parts broken off): Label I (partly printed and handwritten) Under stones, Chikalda, N.B. Kinnear, 26.xi.1913, Label II (handwritten) *K. kinneri*; 1 Female Label I (partly printed and handwritten) Bombay, N.B.

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Kinnear, July, 1912, Label II (handwritten) *D. kinneri*.

Remarks: An anonymous handwritten det. label *D. kinneri* is attached to both the specimens. It is a manuscript name.

Subfamily: ECHINOSOMATINAE

Genus: *Echinosoma* Serville, 1839

5. *Echinosoma* sp.

1 nymph: Label I (printed) Indian Mus., Abor Exped., Sadiya, N.E. Assam, 26.xi.1911, Kemp; Label II (handwritten by Burr) *Echinosoma sumatranum* Haan; 1 nymph: Label I (printed) Indian Mus., Panaji, 400 ft (121.92 m), Abor Exped., 16.i.1912, Kemp; Label II (handwritten by Burr) *Echinosoma sumatranum* Haan.

Remarks: The species could not be confirmed in the absence of a male. Perhaps these are referable to *E. convolutum* Hincks, 1959, which commonly occurs in NE India.

Family: ANISOLABIDIDAE

Subfamily: ANISOLABIDINAE

Genus: *Euborellia* Burr, 1910

6. *Euborellia femoralis* (Dohrn, 1863)

1 Female, Dangs, 31.x.1963, E.M. Shull, det. as *Labidura dohrni* (E); 1 Male, Dangs, 31.x.1963, E.M. Shull, det. as *Psalis dohrni* (G).

Remarks: Elytra and wings are well developed in both the specimens.

7. *Euborellia* sp.

1 early nymph, Bombay, 17.vii.1975.

8. *Euborellia annulata* (Fabricius, 1793)

1 Female: Label I (partly printed and handwritten) Bombay, N.B. Kinnear, July-September, 1912, Label II (handwritten)

Euborellia stali (Dohrn).

Remarks: The above species name was considered valid by Brindle (1981) and Srivastava (1999).

Genus: *Aborolabis* Srivastava, 1969

9. *Aborolabis pervicina* (Burr, 1913)

1 male: Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), Kemp, 28.xii.1911, Label II (printed) Under bark, Label III (handwritten) *Anisolabis pervicina* Burr, Label IV B - printed, denotes M. Burr; 1 Female: Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), Kemp, 29.xii.1911, M. de Courcy Label II (handwritten) *Anisolabis pervicina* Burr, Label III B - printed, denotes M. Burr; 1 Female: Label I (printed) Indian Mus., Abor Exped., Dibrugarh, NE Assam, 17-19.xi.1911, Kemp, Label II (handwritten) *Anisolabis pervicina* Burr.

Genus: *Anisolabella* Zacher, 1911

10. *Anisolabella dohrni* (Kirby, 1891)

2 Females: Chikalda Berars, 3644 ft (1110.69 m), 17.xi.1913, N.B. Kinnear, under stones; 1 Female: Chikalda Berars, 3644 ft (1110.69 m), 25.xi.1913, N.B. Kinnear; 3 Females: Bombay, 31.xii.1913, N.B. Kinnear; 1 ex (hind parts missing): Bombay, July 1911, N.B. Kinnear; 1 Female: Bombay, October 1911, N.B. Kinnear.

Genus: *Apolabis* Burr, 1915

11. *Apolabis aborensis* (Burr, 1913)

1 Female: Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), 25.xii.1911 Kemp, Label II (handwritten by Burr) *Euborellia aborensis* Burr.

Remarks: This specimen may be treated as a paratype, although it was not designated so.

Family: LABIDURIDAE
Subfamily: NALINAE
Genus: *Nala* Zacher, 1910

12. *Nala lividipes* (Dufour, 1820)

1 male: Santacruz, Bombay, 7.xi.1912, N.B. Kinnear; 1 Female: Santacruz, Bombay, 6.xi.1912, N.B. Kinnear; 1 ex (hind parts missing): Dangs, 7.xi.1963, E.M. Shull; 1 male: Dangs, 7.xi.1963, E.M. Shull; 1 male: Nalsarovar, Ahmedabad, 17.i.1962, H. Abdulali; 1 Female: Soccoro, Goa, September, 1915, P.F. Gomes.

13. *Nala nepalensis* (Burr, 1907)

1 male: Label I (printed) Indian Mus., Abor Exped., Yambung, 1400 ft (426.72 m), 13.i.1912, Kemp, Label II (printed) 2431/19, Label III (handwritten by Burr) *Nala nepalensis* Burr.

Subfamily: LABIDURINAE
Genus: *Labidura* Leach, 1915

14. *Labidura riparia* (Pallas, 1773)
(= *Labidura bengalensis* Dohrn, 1863)

1 Male, 1 Female, 1 ex (hind parts missing): Soccoro, Goa, September 1915, P.F. Gomes; 1 Female: Dangs, 1.x.1963, E.M. Shull; 1 Male: Dangs, 29.ix.1963, E.M. Shull; 1 Female: Dangs, 28.ix.1963, E.M. Shull; 1 ex (hind parts missing): Dangs, 30.x.1963, E.M. Shull; 1 Male: Dangs, 3.x.1963, E.M. Shull; 1 Male: Monghyr, 21.xi.1962, R.B. Grubh; 1 Male: Great Rann of Kutch, March, 1960, P.W. Soman.

Genus: *Forcipula* Bolivar, 1897

15. *Forcipula* sp.

1 nymph: Nalsarovar, Ahmedabad, H. Abdulali, 17.ii.1962; earlier determined as nymph of *F. pugnax*; 1 nymph: Belgaum, N.B. Kinnear, 5.ix.1910

16. *Forcipula abbreviata* Srivastava, 1986

1 Male: Label I (printed) Indian Mus., Yambung stream, 1100 ft (335.28 m), Abor Exped., 17.i.1912, Kemp, Label II (printed) under stone, Label III (handwritten by Burr) *Forcipula pugnax* Kirby, Label IV (printed) 2419/19 (Regn. No. of Indian Mus., now ZSI); 1 nymph: Label I (printed) Indian Mus., Abor Exped., Yambung stream, 1100 ft (335.28 m), 17.i.1912, Kemp, Label II (printed) under stone, Label III (handwritten by Burr) *Forcipula pugnax* Kirby, Label IV (printed) 2423/19 (Regn. No. of Indian Mus. now ZSI), Label V B - printed, denotes M. Burr.

17. *Forcipula quadrispinosa* (Dohrn, 1863)

1 ex: Dangs, 18.ix.1963, E.M. Shull; 2 exs: Dangs, 22.ix.1963, E.M. Shull; 2 Males: Dangs, 2.x.1963, E.M. Shull; 2 exs: Dangs, 6.xi.1963, E.M. Shull; 1 Male: Nasik, 30.xi.1913, N.B. Kinnear; 1 ex: Pune, December, 1924, V.S. La Personne; 1 Female: Soccoro, September, 1915, P.F. Gomes.

Family: APACHYDIAE
Genus: *Apachyus* Serville, 1831

18. *Apachyus feae* Bormans, 1894

1 nymph: Label I (printed) Indian Mus., Kemp, Abor Exped., Yambung, 1100 ft (335.28 m), 14.i.1912, Label II (printed) under bark, Label III (handwritten by Burr) *Apachyus feae*

Borm., Label IV B - printed, denotes M. Burr; 1 nymph: Label I Indian Mus., Abor Exped., Kemp, Rotung, 1400 ft (426.72 m), 28.xii.1911, Label II (printed) under bark, Label III (handwritten by Burr) *Apachyus feae* Borm., Label IV B - printed, denotes M. Burr; 1 nymph: Label I (printed) Indian Mus., Abor Exped., Kemp, Rotung, 1400 ft (426.72 m), 28.xii.1911, Label II (printed) under bark, Label III (handwritten by Burr) *Apachyus feae* Borm., Label IV B - printed, denotes M. Burr; 1 nymph: (only thorax remaining) Label I (printed) Indian Mus., Abor Exped., Dibrugarh, NE Assam, 17-19.xii.1911, Label II (printed) under bark, Label III (handwritten by Burr) *Apachyus feae* Borm., Label IV B - printed, denotes Burr, Label V (printed) 2447/19 (Regn. No. of Indian Mus., now ZSI).

Family: SPONGIPHORIDAE

Subfamily: IRDEXINAE

Genus: *Irdex* Burr, 1911

19. *Irdex nitidipennis* (Bormans, 1894)

(= *Spongophora lutea* Bormans, 1894)

(= *Spongophora aborum* Burr, 1913)

(= *Spongovostox wuermalii* Brindle, 1975)

1 ex (only thorax present): Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), 25.xii.1911, Kemp, Label II (printed) under bark, Label III (handwritten by Burr) *Spongovostox luteus* Borm., Label IV B printed, denotes M. Burr; 1 Female (only hind parts): Label I (printed) Indian Mus., Abor Exped. Kobo, 400 ft (121.92 m) 28.xii.1911, Kemp, Label II (printed) under bark, Label III (handwritten by Burr) *Spongovostox aborum* Burr (Brachypterous E), Label IV (printed) 2268/19 (Regn No. of Indian Mus., now ZSI); 1 Male (hind parts present): Label I (printed) Indian Mus., Abor Exped., Rotung, 23.xii.1911, Kemp, Label II (printed) under bark, Label III (handwritten by Burr) *Spongovostox aborum*

Burr (Brachypterous G), Label IV B - printed, denotes M. Burr; 1 male (anterior portion present): Label I (printed) Indian Mus., Abor Exped., Rotung, 1.xii.1911, Kemp, Label II (printed) under bark, Label III *Spongovostox aborum* Burr (Brachypterous G), Label IV B printed, denotes M. Burr; 1 ex (only head and thorax present): Label I (printed) Indian Mus., Abor Exped., Kobo, 400 ft (121.92 m), 8.xii.1911, Kemp, Label II (printed) under bark, Label III (handwritten by Burr) *Spongovostox luteus* Borm., Label IV B - printed, denotes M. Burr.

Subfamily: LABIINAE

Genus: *Chaetospania* Karsch, 1886

20. *Chaetospania feae* Bormans, 1894

1 Male: Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), 28.xii.1911, Kemp, Label II (printed) under bark, Label III (handwritten by Burr) *Chaetospania feae* Borm. G, Label IV (printed) 2136/19 (Regn. No. of Indian Mus., now ZSI); 1 Female (head missing): Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), 23.xii.1911, Kemp, Label II (printed) under bark, Label III (handwritten by Burr) *Chaetospania feae* Borm. E, Label IV 2311/19 (Regn. No. of Indian Mus., now ZSI).

Genus: *Circolabia* Steinmann, 1987

21. *Circolabia curvicauda*
(Motschulsky, 1863)

1 Female: Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72m), 23.xii.1911, Label II (printed) rotten wood, Label III (handwritten by Burr) *Labia curvicauda* Motsch.; 1 ex (anterior part remaining): Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), 29.i.1912,

Label II (printed) rotten wood, Label III (handwritten by Burr) *Labia curvicauda* Motsch.; 1 ex (anterior part remaining): Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), 23.xii.1911, Label II (printed) rotten wood, Label III (handwritten by Burr) *Labia curvicauda* Motsch.

Family: CHELISOCHIDAE

Subfamily: CHELISOCHINAE

Genus: *Chelisoches* Scudder, 1876

22. *Chelisoches brevipennis* Borelli, 1923

1 male (anterior parts only): Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), 24.xii.1911, Label II (printed) under leaf stem of decomposing plantain, Label III (handwritten by Burr) *Chelisoches morio* Fabr., G, Label IV 2389/19 (Regn. No. of Indian Mus., now ZSI);

Genus: *Adiathetus* Burr, 1907

23. *Adiathetus glaucopterus* (Bormans, 1894)

1 Male: Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), 28.xii.1911, Kemp, Label II (printed) under bark, Label III (handwritten by Burr) *Adiathetus glaucopterus* Borm., Label IV 2182/19 (Regn. No. of Indian Mus., now ZSI); 2 Males (in one ex. anterior half remaining): Label I (printed) Indian Mus., Abor Exped., Dosing, 1400 ft (426.72 m), 29.i.1912, Kemp; Label II (printed) under bark, Label III (handwritten by Burr) *Adiathetus glaucopterus* Borm. Label IV 2269/19 and 2270/19 (Regn. No. of Indian Mus., now ZSI); 1 ex (damaged): Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), 28.xii.1911, Kemp, Label II (printed) under bark, Label III (handwritten by Burr) *Adiathetus glaucopterus* Borm., Label IV 2220/19 (Regn. No. of Indian Mus., now ZSI).

Genus: *Laprophorella* Mjöberg, 1924

24. *Laprophorella kervillei* (Burr, 1905)

1 Male (hind parts remaining): Label I (printed) Indian Mus., Abor Exped., Dibrugarh, N.E. Assam, 22.ix.1911, Kemp, Label II (partly printed) under leaf sheath of bamboo, Label III (handwritten by Burr) *Lamprophorella kervillei* Burr ♂, Label IV B printed, denotes M. Burr; Label V (printed) 2443/19 (Regn. No. of Indian Mus., now ZSI); 1 Female (anterior portion remaining): Label I (printed) Indian Mus., Abor Exped., Dibrugarh, N.E. Assam, 22.ix.1911; Label II (printed) under leaf sheath of Bamboo, Label III (handwritten by Burr) *Lamprophorella kervillei* Burr, E.

Genus *Hamaxas* Burr, 1907

25. *Hamaxas kempi* Burr, 1913

1 Female (hind parts missing): Label I (printed) Indian Mus., Abor Exped., Upper Rotung, 4.i.1912, Kemp, Label II (printed) under leaf sheath of plantain, Label III (handwritten by Burr) *Hamaxas kempi* Burr E; 1 Male (hind parts missing): Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), 29.xii.1911, Kemp, Label II (printed) under leaf sheath of plantain, Label III (handwritten by Burr) *Hamaxas kempi* Burr, G, Label IV 2408/19 (Regn. No. of Indian Mus., now ZSI); 1 Female (hind parts missing): Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), 28.xii.1911, Kemp, Label II (printed) under leaf sheath of plantain, Label III (handwritten by Burr) *Hamaxas kempi* Burr, E, Label IV 2203/19 (Regn. No. of Indian Mus., now ZSI).

Family: FORFICULIDAE

Subfamily: OPISTHOCOSMINAE

Genus: *Eparchus* Burr, 1907

26. *Eparchus insignis* (Haan, 1842)

1 ex (only thorax with wings and elytra)

present): Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), 21.xii.1911, Kemp, Label II (printed) under bark, Label III (handwritten by Burr) *Eparchus insignis* Haan, Label IV 2172/19 (Regn. No. of Indian Mus., now ZSI).

Genus: *Timomenus* Burr, 1907

27. *Timomenus lugens* (Bormans, 1894)

1 Male: No data on locality. Det. as *Timomenus nevillei* (Burr).

Subfamily: ALLODAHLINAE

Genus: *Allodahlia* Verhoeff, 1902

28. *Allodahlia scabriuscula* (Serville, 1839)

1 Female: Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), 23.xii.1911, Label II (printed) under bark, Label III (handwritten by Burr) *Allodahlia scabriuscula* Serville, E, Label IV 2160/19 (Regn. No. of Indian Mus., now ZSI); 1 Male (anterior portion present): Label I (printed) Indian Mus., Abor Exped., Rotung, 1400 ft (426.72 m), 28.xii.1911, Label II (printed) under bark, Label III *Allodahlia scabriuscula* Serville, G, Label IV 2146/19 (Regn. No. of Indian Mus., now ZSI); 1 Male: Label I (printed) Indian Mus., Abor Exped., Below Dosing, 1400 ft (426.72 m), 29.i.1912; Label II (printed) under bark, Label III *Allodahlia scabriuscula* Serville, G; 1 Male (hind portion present): Label I (printed) Indian Mus., Abor Exped., Kobo, 400 ft (121.92 m), 1.xii.1911, Kemp, Label II (printed) under bark, Label III

Allodahlia scabriuscula Serville, G.

Subfamily: FORFICULINAE

Genus: *Elaunon* Burr, 1907

29. *Elaunon bipartitus* (Kirby, 1891)

1 Female (head missing): Label I (printed) Indian Mus., Abor Exped., above Panaji, 4000 ft (1219.2 m), 16.i.1912, Kemp, Label II (printed) under bark, Label III (handwritten by Burr) *Elaunon bipartitus* Kirby, Label IV B printed, denotes M. Burr, Label V 2326/19 (Regn. No. of Indian Mus., now ZSI); 1 ex (elytra and wings only present): Label I (printed) Indian Mus., Abor Exped., above Panaji, 4000 ft (1219.2 m), 16.i.1912, Kemp, Label II (printed) under bark; Label III (handwritten by Burr) *Elaunon bipartitus* Kirby, Label IV B - printed, denotes M. Burr, Label V) 2320/19 (Regn. No. of Indian Mus., now ZSI).

Subfamily: DIAPERASTICINAE

Genus: *Diaperasticus* Burr, 1907

30. *Diaperasticus erythrocephalus* (Olivier, 1891)

1 Female (hind parts missing): Label I (printed) Belgaum, N.B. Kinnear, 4 September, 1910, Label II (handwritten) *Elaunon erythrocephalus*, E, W. Kirby.

Remarks: This species is distributed in Africa and Madagascar only. The above identification is dubious. The hind parts of the specimen are missing.

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